



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0042569	TWM001-VU	1	1	Net 30	M4130NT0.750W.049	4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft				100	2/21/2019	96		S155281	Stock	2/20/2019	\$ 4.50 / ft	2		\$432.00	TW Metals
		2			M4130NT0.750W.083	4130 Round Tube .750 X.083W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft				20		19		S155282	Stock	2/20/2019	\$ 5.03 / ft	2		\$95.57	TW Metals
										Total:										\$527.57	

Plex 2/22/2019 4:33 PM dart.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO042569



Supplier: TWM001-VU
TW Metals
PO Box 933014
Atlanta, GA 31193-3014 USA
Phone: 585 768 5600
Fax: 585 768 5601

PO No: PO042569

PO Date: 2/11/19

Due Date: 2/21/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 12 2019

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M4130NT0.750W.049		4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	-	2/21/19	100 ft	0 ft	100 ft	\$4.50/ft	\$450.00
2		M4130NT0.750W.083		4130 Round Tube .750 X.083W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	-	2/21/19	20 ft	0 ft	20 ft	\$5.03/ft	\$100.60
Grand Total:												\$550.60

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/11/19 2:18 PM dart.lavoie.chantal



One of the High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60674169

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT: 46.439 REQ.DATE: 02/21/19 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/15/19
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO042569 RELEASE NO.:
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0001	33047 CDS 4130 6736 3/4 OD X .049 WA		17/24 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	100.000 FT	96.000 FT	96.000 FT	35.205	4

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00
PO:49397462 HT:615479 PC: 4 CUSTOMER QTY: UOM
MLT:GERMANY MFG:GERMANY SLB/CL:1653162

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0002	33096 SMLS CD 4130 6736 3/4 OD X .083 WA		17/24 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	20.000 FT	19.000 FT	19.000 FT	11.234	1

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00
PO:49390619 HT:606336 PC: 1 CUSTOMER QTY: UOM
MLT:GERMANY MFG:UNITED STATES SLB/CL:233992

BROKERS LIVINGSTON INTERNATIONAL

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
NEW PEN CARTON		1.000	71.439	3.0000	293.0000	3
Orders In Package - 1		Box No -	TWPK19007022	CUBIC FT	1.5260	
		1.000	71.439			

BY: Wilfredo Nieves
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

DATE FILLED _____

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60674169

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 NET WGT: 46.439 REQ.DATE: 02/21/19 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/15/19
TERMS: NET 30 DAYS 27 ENGLEHARD DRIVE
F.O.B.: SHIPPING POINT MONROE TWP NJ 08831
CUST ORD NO.: PO042569
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 2/12/19

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>

Benteler SteelTube GmbH
Postfach 13-40
33043 Paderborn,
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

BENTELER

SteelTube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1
EN 10204:2005-01

Benteler SteelTube GmbH · Postfach 1340 · 33043 Paderborn · Deutschland

TW Metals
The Aboretum, Suite 204
760 Constitution Drive
EXTON, PA 19341
USA

Blatt: 1 / 3
Page:

Prüf-Nr.:
Inspection No.:
No. du certificat:

41-1120306/001/Z

Dokument-Nr.:
Document No.:
No. du document:

46006381 TW M49397462

Kunden-Bestell-Nr.:
Purchase Order No.:
No. de commande du client:

1653162

Benteler Auftrags-Nr.:
Benteler Order No.:
No. de commande Benteler:

4162079

Versandanzeigen-Nr.:
Dispatch Note No.:
No. d'avis d'expédition:

Produkt: NAHTLOSE STAHLROHRE
Product: SEAMLESS STEEL TUBES
Produit: TUBES D'ACIER SANS SOUDURE

Hersteller:
Manufacturer:
Producteur:
Warmrohrwerk/Zieherei
IDIN EN ISO 9001, IATF 16949 CERTIFIED BY TUV NORD CERT
IPED 2014/68/EU CERTIFIED BY TUV NORD SYSTEMS



Herstellerzeichen:
Manufacturer's brand:
Marque du producteur:

WA

Stempel des Abnahmebeauftragten:
Stamp of the inspection representative:
Poinçon du contrôleur:

Stahlschmelzungsverfahren:
STEELMAKING PROCESS:
Procédé d'élaboration de l'acier: ELEKTROSTAHL
ELECTRIC FURNACE
FOUR ELECTRIQUE

AMS-T-6736B-08 Type 1, MIL-T-6736B Type 1, ASTM-A 519-2017, AMS 6360 rev. N, AMS 2301K

Lieferbedingungen:

Terms of delivery:

Conditions de livraison:

AMS 2253F-18, Aircraft Type, Seamless, Cold Finished

Maße - Toleranzen:

Dimensions-tolerances:

Dimensions-tolérances:

Stahlsorte:

Steel grade:

Nuance d'acier:

GRADE 4130

Condition N

Lieferzustand:

Delivery condition:

État de livraison:

FSD: BENTELER AMS 6360N-AMS-T-6736 B 1-MIL-T-6736 B 1-AMS 2301K 4130 Condition NHEAT-NO. CD

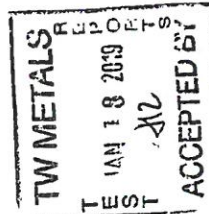
Produktkennzeichnung:

AQ S DIMENSIONS-WA GERMANY

Product marking:

Marquage du produit:

AEZ = Ätzlinienbeschriftung, Etching ink marking, Gravure à l'encre · FK = Farbstrahlkennzeichnung, Color jet printer, Impression à jet d'encre de couleur · LK = Laserkennzeichnung, Laser marking, Marquage laser · PKX = Etikettenkennzeichnung, Tag marking, marquage sur étiquette · PS = Prägestempel, die stamp, marquage par poinçonnage · TS = Tintensstrahlkennzeichnung, Ink jet spray marking, impression à jet d'encre



Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666



Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.:
No. du document:

41-1120306/001/Z

Prüf-Nr.:
Inspection No.:
No. du certificat:

Blatt: 2 / 3

Page:

Pos.	Stück	Maße	Gesamtlänge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vielfachlängen
Item	Number	Dimensions:	Length total	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste	Nombre	Dimensions	Longueur totale	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
		feet	feet	lbs				
0001	211	0.750" O.D. * 0.049" WT. 20 FT ± .24 FT	5053,48	1803	615479			

Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.	>=0,2800	>=0,1500	>=0,4000	>=0,8000	>=0,1500	>=0,8000	>=0,1500	>=0,1500	>=0,1500
Poste	No. de coulée	<=0,3300	<=0,3500	<=0,6000	<=0,0250	<=0,0250	<=0,1000	<=0,2500	<=0,2500	<=0,3500
0001	615479	0,310	0,260	0,54	0,011	0,001	0,86	0,18	0,11	0,16

Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.	>=0,2800	>=0,1500	>=0,4000	>=0,8000	>=0,1500	>=0,8000	>=0,1500	>=0,1500	>=0,1500
Poste	No. de coulée	<=0,3300	<=0,3500	<=0,6000	<=0,0250	<=0,0250	<=0,1000	<=0,2500	<=0,2500	<=0,3500
0001	615479	0,300	0,262	0,53	0,009	0,001	0,87	0,18	0,10	0,17

Prüfergebnisse / Test results / Résultats des essais

Die Rohre wurden zerstörungsfrei geprüft: The tubes are non destructive tested: Les tubes ont passé un essai non destructif:	ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections; ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections; Notch depth: 0,30 mm; notch width <= notch depth; notch length min. 2 x transducer width (max. 50 mm)	PASSED
--	--	--------

Augensichtkontrolle: Visual inspection: Examen visuel:	Materialverwechslungsprüfung: Material conformity test: Vérification de la nuance:	PASSED	Maßkontrolle: Dimensions examination: Vérification des dimensions:	PASSED
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Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probenahme erfolgte an Vielfachlängen.
The sampling was carried out on multiple lengths.
L'échantillonnage était réalisé aux longueurs multiples.

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

41-1120306/001/Z

Prüf-Nr.:
Inspection No.:

No. du certificat:

Zugversuch längs bei RT; Vollprobe / Tensile test longitudinal at RT, Full section test specimen / Essai de traction longitudinale à TA, Epreuve à section complète

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung
Item	Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation
Poste	No. de l'éprouv.	No. de coulée	Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement
Anforderungen				Rp 0,2 %	Rm	A2"
Requirements			mm	KSI	KSI	%
Exigences				MIN 75	MIN 95	MIN 12,00
0001	000001	615479	19,03 X	1,15	124	133
0001	000002	615479	19,03 X	1,15	123	132
0001	000003	615479	19,03 X	1,15	124	132
0001	000004	615479	19,03 X	1,15	123	133
0001	000005	615479	19,03 X	1,15	122	131
0001	000006	615479	19,03 X	1,15	122	131

Randentkohlung / Surface decarburization / Décarburation superficielle

acc. to AMS-6360, acc. to ASTM-E 1077, partial decarburization outside max. 0.009 in, partial decarburization inside max. 0.009 in, partial decarburization outside and inside max. 0.012 in, without total decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm; partial decarb. out. + ins. max: 0,305 mm

Vermerk / Remark / Remarque

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany, Aircraft quality steel acc. to AMS 2301K

Macroscopic examination: acc. to ASTM-E 381

Magnetic particle inspection: acc. to AMS 2301K/ASTM-E 1444, on prematerial

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, on prematerial

Verkäufer(in) / Sales Personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Werk 41, Marlénloher Str., 33104 Paderborn, 09.01.2019, TEL.: 05254.81-201766

Abnahmebeauftragter
Inspection representative

Contrôleur

I. A. THOMAS GOLLAN / ICK

Es wird bestätigt, daß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.

We certify that the supplied products comply with the order specifications. This document was prepared by means of electronic data processing and is valid without signature.

Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

Benteler Steel/Tube GmbH
Residenzstraße 1
33104 Paderborn
Germany

Tel.: 49 5254 81-0 Fax: 49 5254 13666

BENTELER
Steel/Tube

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Page: 1 of 1
Page: de

Dokument-Nr.
Document No.: 41-1120306/001/Z
No. de document:

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang
Inspection Certificate EN 10204-3.1 / appendix
Certificat de réception EN 10204-3.1 / appendice

Halbzeuguntersuchung: Stahlsorte: 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste.	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härbarkeit (min. Anforderungen) Hardenability (min. requirements) Trempeabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301 K/ASTM- 1444)		Makroätzung Macrostructure test Essai de macrostructure (ASTM-E 381)		
		min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2	max. R 1	max. C 2
615479	001	9-10	45	35	0,020	0,015	S 2	R 1	C 2
Decarburization Depth		Outside 0,000 mm	Inside 0,000 mm						

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Abnahmebeauftragter
Inspection representative
Contrôleur

Thomas Gollan

Paderborn Schloß Neuhaus, 09.01.2019
Tel.: (0)5254 81-201760 Fax: (0)5254 81-201752

SPECIFICATION CONTROL DRAWING

Line 1.
M4130NT0.750W.049

PURCHASE MATERIAL: AISI 4130N SEAMLESS STEEL TUBING
SPECIFICATION: MIL-T-6736 OR AMS 6371, 6360, 6361, 6362, 6373, 6374
PART NUMBER: M4130N TD.DDD IW.TTT | DIA. | WALL |
WHERE: "D.DD" = OUTER DIAMETER (IN INCHES)
AND "TTT" = WALL THICKNESS (IN INCHES)

EG. 3/4" TUBING WITH .035" WALL = M4130NT0.750W.035

RELEASE
2012-04-16

B		REFORMAT DWS TO ACCOMMODATE ADDITIONAL TUBE DIAMETERS AND WALL THICKNESS		RP	12.04.02
A		NEW ISSUE		JB	01.05.16
REV.		DESCRIPTION		BY	DATE
DESIGN	DRAWN	JB	RP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	AP	DRAWING NO.		REV. B	
MFG. APPR.	AP	M4130N-T		SHEET 1 OF 1	
APPROVED	AP	TITLE		SCALE	
DE APPR.	AP	STEEL TUBING		NTS	
DATE	12.04.02	COPYRIGHT © 2004 BY DART AEROSPACE LTD		NOT TO BE USED FOR ANY PURPOSES OR COPIES OR REPRODUCTIONS WITHOUT THE EXPRESS WRITTEN PERMISSION OF DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NT0.750W-049
 DATE: 1902/21

PO / BATCH NO.: P0042564/5155281

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 96ft
 QUANTITY INSPECTED: 96ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	N	<u>AMS 6360</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	<u>Mt: 615479</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>9-89 FEB 21 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



MATERIAL TEST REPORT

Sold To: 2281400
TW METALS INC. CRANBURY
27 ENGLEHARD DRIVE
MONROE TWP NJ 08831

Ship To: 2281400
TW METALS INC. CRANBURY
27 ENGLEHARD DRIVE
MONROE TWP NJ 08831

Purchase Order: M49390619
Sales Order: 233992
Material: A888075008305351 AMS-T-6736 .7500D .083AW AMS 6360
Delivery / File Nbr: 80414501

Description: AMS-6360N/AMS-T-6736B COND N. MIL-T-6736B
SEAMLESS 4130 *AT*

Test: NDT ELECTRIC TESTED TO ASTM A450 OR A1016 & APPLICABLE TEST METHOD E309 OR E426. MAGNETIC INSPECTED TO AMS2301.

PRODUCT COMPLIES TO THE BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM (DFAR BAA) DFAR 252.225-7001.

PRODUCT COMPLIES TO THE BUY AMERICAN ACT FAR 52.225.1 (FAR BAA).

PRODUCT COMPLIES TO THE TRADE AGREEMENTS ACT (TAA).

Heat Number: 606336
%

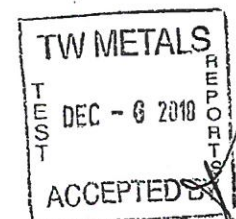
CARBON	LDL	0.330
MANGANESE	LDL	0.540
PHOSPHORUS	LDL	0.005
SULFUR	LDL	0.002
SILICON	LDL	0.270
NICKEL	LDL	0.070
CHROMIUM	LDL	0.900
MOLYBDENUM	LDL	0.180
COPPER	LDL	0.100
ALUMINUM	LDL	0.038

Ultimate (PSI)	115333 / 115657
Yield (PSI)	97,111 / 97,683
Elongation (%)	23 / 24
Hardness (HRBW)	95 / 95
Grain Size	8.500
Frequency rate	0.020
Severity	0.010
Decarb OD Complete (IN)	PASSED
Decarb ID Complete (IN)	PASSED
Decarb OD Partial (IN)	PASSED
Decarb ID Partial (IN)	PASSED

Origin of Melt Germany

Origin of Raw Material Germany

Manufactured in USA





MATERIAL TEST REPORT

Sold To: 2281400
TW METALS INC. CRANBURY
27 ENGLEHARD DRIVE
MONROE TWP NJ 08831

Ship To: 2281400
TW METALS INC. CRANBURY
27 ENGLEHARD DRIVE
MONROE TWP NJ 08831

Purchase Order: M49390619
Sales Order: 233992
Material: A888075008305351 AMS-T-6736 .7500D .083AW AMS 6360.
Delivery / File Nbr: 80414501

Webco Industries, Inc. certifies that the material described was manufactured and tested and/or inspected in accordance with the specification and fulfills requirements in such respect.
This document conforms to the requirements of Specification EN 10204 Inspection Document Type 3.1.
This document was prepared by means of electronic processing and is valid without signature.

Date: 12/03/2018

Tony Stubblefield
Quality Manager
TSTUBBLE@WEBCOTUBE.COM

201 S. Woodland Dr.
Sand Springs OK 74063



27 ENGLEHARD DRIVE
 MONROE TWP NJ 08831
 Tel: 609-655-4120
 FAX: 6096552603

Invoice#: 60674169
 Cust. PO#: PO042569
 Incoterms: SHIPPING POINT
 Frt. Terms: PREPAID
 Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 2/15/19
	Ship Date: 2/13/19
	Payment Terms: NET 30 DAYS
Freight Forwarder/Intermediate Ship To:	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT	VALUE	SUBTOTAL
33047	CDS 4130 6736 3/4 OD X .049 WA	96.000 FT	\$	4.5000 FT	\$ 432.00
		0 IN			
1	ALLOY TUBE ROUND	4.000 PC			
	PART NUMBER:				
	ECCN: 9A991.d				
	SCHEDULE B:7304.51.0000				
	ALLOY TUBE ROUND SMLS W/OD </=3"				
	NET WGT: 35.205 LBS				
	COUNTRY OF MFG: GERMANY				
33096	SMLS CD 4130 6736 3/4 OD X .083 WA	19.000 FT	\$	5.0300 FT	\$ 95.57
		0 IN			
2	ALLOY TUBE ROUND	1.000 PC			
	PART NUMBER:				
	ECCN: 9A991.d				
	SCHEDULE B:7304.51.0000				
<p align="center">EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00</p>					
<p>TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC.</p> <p>THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.</p>					
Page 1					CONTINUE

SPECIFICATION CONTROL DRAWING

Lead.
M4130NT0.750W.035

PURCHASE MATERIAL: AISI 4130N SEAMLESS STEEL TUBING

SPECIFICATION: MIL-T-8736 OR AMS 6371, 6360, 6361, 6362, 6373, 6374

PART NUMBER: M4130N (D.DDD) (W.TTT) WHERE: "D.DDD" = OUTER DIAMETER (IN INCHES)
AND "TTT" = WALL THICKNESS (IN INCHES)

DIA. WALL

EG. 3/4" TUBING WITH .035" WALL = M4130NT0.750W.035

RELEASED
R 2012-04-16

B	REFORMAT DWG TO ACCOMMODATE ADDITIONAL TUBE DIAMETERS AND WALL THICKNESS	RP	12.04.02
A	NEW ISSUE	JB	01.05.16
REV.	DESCRIPTION	BY	DATE
DESIGN	JB		
DRAWN	RP		
CHECKED	AP		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.04.02		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M4130N-T			
SHEET 1 OF 1			
TITLE STEEL TUBING			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NT0.750W-283

PO / BATCH NO.: P0042569/S155282

DATE: 19/02/21

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 19FT

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 19FT

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	MIL-T-6736
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT-606336
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>FEB 21 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in